



भारतीय कृषि अनुसंधान परिषद्  
प्राकृतिक संसाधन प्रबंधन प्रभाग  
कृषि अनुसंधान भवन-II, पूसा  
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सहायक महानिदेशक (एस. डब्ल्यू. एम.)

मि.सं.- एन.आर.एम.-4(2)/2021-एस.डब्ल्यू. एंड डी. एफ.

दिनांक: 28.03.2024

सेवा में

निदेशक,  
ICAR-Indian Institute of Soil Science,  
Nabi Bagh, Berasia Road,  
Bhopal-462038 (M.P.)


विषय: Proceedings of the XXVII RAC meeting of ICAR-Indian Institute of Soil Science held during 25-26 September, 2023- reg.

महोदय,

I am directed to refer your letter No.850 dated 31.01.2024 on the subject cited above and to convey the approval of the Competent Authority of the Council to the following recommendations of RAC Meeting held on 25-26 September, 2023: -

- The institute should give priority to develop / standardise alternate methods of soil and plant analysis such as spectroscopic technique, extractants, colour charts etc. by harnessing the developments in the sensors and AI applications.
- Identify the causal factors of soil health deterioration and indicative / critical soil parameters to develop sustainable soil health management practices for different agroecological regions of India.
- Develop conservation agricultural practices for different soil and climate conditions to address the regional and soil specific challenges and promote the adoption of CA based technologies.
- Research should focus on development of nano-materials and nano-formulations for improving the nutrient use efficiency and as alternative source of nutrients besides, their effects on soil environment.
- Scientific study should be carried out to understand and quantify the effect of Natural Farming practices on soil-plant environment particularly in challenging soil and ecological conditions.
- Research on plant growth promoters and plant microbiome should be undertaken for sustainable management of soil and enhance the crop production under adverse soil conditions.
- More efforts should be made to develop technologies for the safe use of sewage sludge, municipal and industrial wastes as alternative nutrient sources and develop suitable phyto-remediation technologies for contaminated soils.
- Institute should work on developing standards, tools and protocols for promoting carbon sequestration, GHG emission reduction and amendments for different soils.

भवदीय,

  
(A. Velmurugan)  
(ए. वेलमुरुगन)